

- b) generating a target seeker actual position;
- c) generating a trouble signal by determining a difference between the target seeker command position and the target seeker actual position;
- d) determining an error in amplitude and angle of a vector that specifies a direction to a target;
- e) generating based upon the error in amplitude and angle of the vector an actual value signal adapted to the weapons system;
- f) transmitting the actual value to the weapons system; and
- g) repeating steps c-f.

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8. The method according to claim 7, wherein the trouble signal is measured continuously in an interface and wherein the error in amplitude and phase angle comprises a difference between a vector S^c corresponding to the target seeker command position and a vector S_0 corresponding to the target seeker actual position, the method further comprising:

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transmitting the error in amplitude and phase angle to a missile model in the simulator.

9. The method according to claim 8, wherein for each sample value of the trouble signal the missile model calculates a new actual value of the target seeker actual position and transmits the actual value to the interface in the form of an actual value for an amplitude of the target seeker command position vector and a phase angle of the target seeker command position vector.

10. The method according to claim 9, wherein the interface reproduces a continuous actual value signal from the values for amplitude and phase angle received from the missile

model.

11. The method according to claim 10, wherein the interface inverts the actual value signal.

12. The method according to claim 11, wherein the trouble signal is generated in a summing unit in the weapons system by summing the signal from the weapons system which gives the position for a commanded target and the inverted actual value signal in a summing unit.

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13. The method according to claim 7, wherein simulated conditions are utilized to affect input to a missile control.

14. The method according to claim 7, wherein the trouble signal is utilized as a control signal for the target seeker.

15. The method according to claim 8, wherein the interface generates time discrete signals.

16. The method according to claim 8, wherein the interface receives time discrete signals.